

Application No. 09/808,225  
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TC Art Unit: 1645  
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AMENDMENTS TO THE SPECIFICATION

Applicant respectfully submits that the express mail number provided on page 1 of the specification beneath line 35 should be deleted. A marked-up copy of this amendment is provided herewith as a convenience to the Examiner.

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-2-

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**PROCESS FOR IDENTIFYING AND ENRICHING  
CELL-SPECIFIC TARGET STRUCTURES**

5     **DESCRIPTION:**

          The present invention relates to a process for  
identifying and enriching cell-specific target  
structures, in particular for the identification of  
10 cell-specific protein combination patterns on cell  
surfaces and for enriching such cells.

          Identifying cell-specific target structures is  
crucial for elucidating cell-to-cell interactions which  
may cause countless effects within an organism.  
15 Especially, knowing disease-specific target structures  
is a decisive prerequisite for developing effective  
drugs which at the same time only have few side effects.

          It is known from the prior art that immune cells  
(lymphocytes) will express specific combinations of  
20 proteins, also referred to as protein combination  
patterns or, in short, PCP, which are responsible for  
binding to endothelioid cells of the blood vessels in  
the brain and in muscle tissue. Other protein  
combinations, however, will not result in any binding to  
25 such endothelioid cells. Surprisingly, these specific  
combinations are inter-individually consistent, always  
exhibiting the same binding functions. Consequently,  
the specific protein combination patterns seem to be an  
inter-individually consistent lymphocyte binding code of  
30 the cell surface for organ-specific endothelioid cell  
surfaces which represents a cell-specific target  
structure. Cell-specific target structures may thus  
exhibit quite specific protein combination patterns.

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